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1 Technical correspondence: Language integration in the common language runtime

Jennifer Hamilton

February 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 2

Publisher: ACM Press

Full text available: pdf(974.52 KB) Additional Information: full citation, abstract, references

The Common Language Runtime (CLR) is language and platform-neutral, and provides the underlying infrastructure for the Microsoft .NET Framework. A key innovation in the CLR is its support for multiple programming languages, enabling programming language integration at the runtime level to a much greater degree than is currently possible.

Keywords: common type system, exception handling, intermediate language, language interoperability, metadata, virtual machine

2 Optimizing away C++ exception handling

Jonathan L. Schilling

August 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 8

Publisher: ACM Press

Full text available: pdf(899.59 KB) Additional Information: full citation, abstract, citings, index terms

A high performance implementation of C++ exception handling is crucial, because exception handling overhead is distributed across all code. The commonly-used table-driven approach to implementing exception handling can be augmented by an optimization that seeks to identify functions for which (contrary to first appearance) no exception handling tables need be generated at all. This optimization produces modest but useful gains on some existing C++ code, but produces very significant size and spe ...

Keywords: C++, benchmarks, compiler, exception handling, optimization

3 A study of exception handling and its dynamic optimization in Java

Takeshi Ogasawara, Hideaki Komatsu, Toshio Nakatani

October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11

Publisher: ACM Press

Full text available: pdf(190.18 KB) Additional Information: full citation, abstract, references, citings, index terms

Optimizing exception handling is critical for programs that frequently throw exceptions.

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